

## **ELECTROIONIC PROCESSING SYSTEM**

### **ABSTRACT**

The present invention provides an electroionic processing system having a high frequency alternating current (AC) power source for treating potable water, process water, wastewater, biosolids, sludge, primary effluent, secondary effluent, and other biochemical processing functions, including producing hydrogen peroxide and other useful chemicals. An electromagnetic field is generated and coupled to an electrolytic treatment apparatus by a direct coupling apparatus and method, a capacitive coupling apparatus and method, and an inductive coupling apparatus and method. The present invention further comprises a process controller and a plurality of analyzers for monitoring various treatment process variables to adjust and optimize the process as necessary.

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